

OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER, Avant de l'utiliser, prendre soin de lire ce manuel.

Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

شكراك على شرائك جهاز پايودير هذا. قبل محاولة تشغيله تأكد من قراءة هذا الدليل.



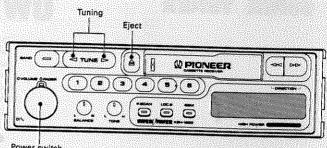




Features

Switching the Tuning Steps

- Built-in highly sensitive "Super Tuner" for automatic control of stereo separation, muting and frequency characteristics to match the strength of the FM signal.
- The Best Stations Memory automatically memorizes the six best (strongest) stations in the six preset buttons in the order of their strength.
- Preset scan tuning for sequential recall of preset frequencies.
- Auto reverse function eliminates the need to turn the cassette over and allows uninterrupted playback.
- Choice of either 4-speaker or 2-speaker system is possible. When the 4-speaker system (15 W imes 4) is used, volume of front and rear speakers can be adjusted independently, for optimum sound balance. The 2-speaker system (25 W imes 2) provides more than enough power for clear, high-fidelity playback.



Power switch

Changing the tuning step

The tuning steps of the AM band for this unit can be switched between 9 kHz and 10 kHz per step. The tuning step should be switched from 9 kHz (which is preset at the factory) to 10 kHz when this unit is used in North America, Central America, or South America.

- 1. Press the eject button to eject the cassette, and then turn left the power switch to turn off the power.
- 2. To change the AM tuning step, hold down the up (>) or down $(\operatorname{\lhd})$ tuning button and at the same time turn the power switch to turn the power on, it should be noted that changing the tuning step also deletes frequencies stored in the tuning memories.

Specification	Initial Setting New Setting
	irem Setting
Tuning steps	9 kHz steps 10 kHz steps
ARA	TO ATTZ SIEDS
Frequency range	531 — 1,602 kHz 530 — 1,710 kHz
<u> </u>	7002 KHZ 330 1,7 0 KHZ

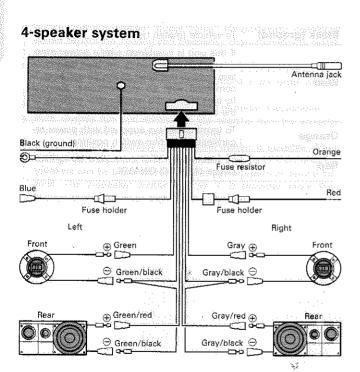
Connections

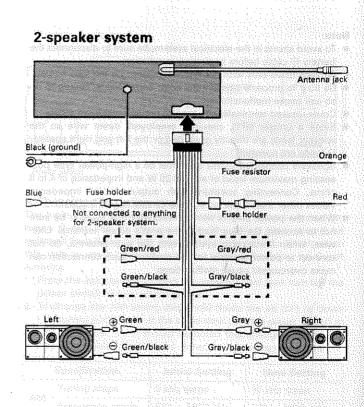
Note:

- To avoid shorts in the electrical system, be sure to disconnect the battery
 ⊖ cable before beginning installation.
- Replace fuses only with the types stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.
- Cover unused terminals with tape to prevent electrical shorts.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right speaker ⊖ leads are common.
- Speakers connected to this unit must be a high-power type possessing maximum input of at least 25 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.
- When the power amp is being linked with this system, be sure not to connect the blue lead to the amp's power terminal. Likewise, when linking this system with the auto-antenna, do not connect to power terminal for the antenna. Such connection can make overcurrent cause malfunctions.

Black (ground)	To vehicle (metal) body.		
Blue	its hive lead to the relay control to mainst af		
Orange	To terminal always supplied with power regardless of ignition switch position.		
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.		







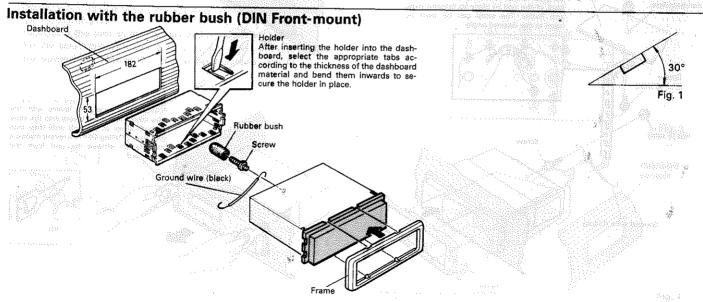
Installation

DIN Front/Rear-mount:

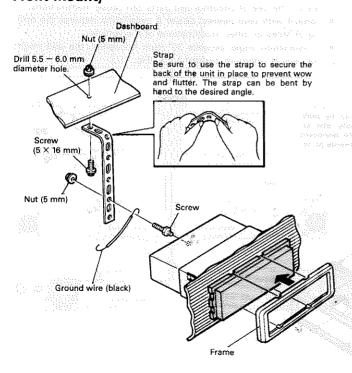
This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing thread screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

Note:

- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 1)



Installation without the rubber bush (DIN Front-mount)



Removing the unit (DIN Front-mount)

Insert the release pin into each of the two holes in the bottom of the frame and pull out to remove the frame.

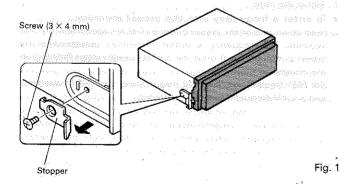
Lever

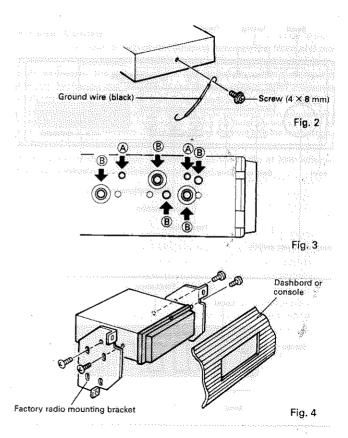
Position the accessory levers with the tabs lower insert the levers into the slots on both sides of the unit until they lock into place. Pulling OFF the levers makes it possible to remove the unit from the deshboard.



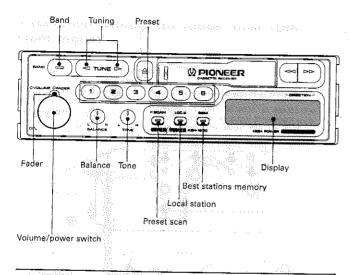
Installation using the screw holes on the sides of the unit (DIN Rear-mount)

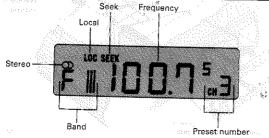
- 1. Remove the stopper.
 - Remove the screw (3 \times 4 mm) and remove the stoppers from both sides (Fig. 1).
- 2. Installing the ground wire
 - Install the supplied ground wire onto the back of the unit using a screw (4 \times 8 mm), and connect the other end to a metal fixture of the vehicle (Fig. 2).
- 3. Fastening the unit to the factory radio mounting bracket For the screw holes marked @ in Fig. 3, use 4 × 8 mm screws. For the screw holes marked @, use 5 × 8 mm screws. (Fig. 4)





Using the Radio





- Before attempting operation...
- Set the fader control to the upright position.
- Turning the power switch to the right causes power to switch ON and the current frequency to appear on the display.
- Since the set is designed preferentially for tape play, eject a cassette tape, if mounted, before operating the radio.
- 2. Press the band switch to select the band.
- Press both ends of tuning button and the seek tuning indicator will appear on the display.
- Press either the left or right side of the tuning button to tune in the desired frequency. (Pressing the right side will increase the frequency.)
- 5. Adjust the volume and balance.
- 6. Adjust the tone.
- To enter a frequency into the preset memory...
- Hold down one of the preset buttons (1-6) for approximately two seconds. The frequency is stored in memory (assigned to the preset button pressed) once the preset number stops flashing on the display.

Six FM1 frequencies, six FM2 frequencies, six FM3 frequencies and six AM frequencies can be entered.

Best Stations Memory Button

Automatically tunes strong frequencies and assigns them to preset buttons 1 through 6 for one-touch automatic tuning. The best stations memory function is activated by pressing this button for approximately 2 seconds. The best stations memory function is indicated by ---- flashing on the display, and this function can be canceled by pressing the band switch. The frequency display returns once the best stations memory function is complete. The frequency displayed at this time is of the strongest station assigned to preset button 1 by the best stations memory function.

- 6 best (strongest) frequencies are memorized in the 6 preset buttons in the order of their strength, the strongest one being assigned to preset button 1.
- The frequencies previously assigned to the preset buttons are retained when 6 frequencies cannot be located.
- The best stations memory is in operation while ——— is flashing on the display.

Local Station Switch

Pressing this switch increases the seek threshold level so that only relatively strong stations can be tuned in (local indicator will illuminate on the display). Local seek threshold level can be selected among four levels for FM and two levels for AM.

Holding this switch down for approximately 2 seconds and then pressing the right side of the tuning button changes the display. from L-1, L-2, L-3 to L-4. Pressing the left side of the tuning button changes the display from L-4, L-3, L-2 to L-1 (L-1 and L-2 for AM). The bigger the number, the higher the seek threshold becomes and only relatively strong stations can be tuned in.

● Fader Control

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control to the right decreases the volume of the rear speakers, while turning it to the left decreases the volume of the front speakers. With 2-speaker systems, set this control to the upright position.

A considerable amount of sound will continue to be produced from speakers of a 4-speaker system which have been cut by setting the fader control either to the front speakers or rear speakers. This is normal and does not indicate malfunction.

Auto-Loudness

When playing back a tape or listening to the radio at low volume, the low tone is automatically emphasized.

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Seek Tuning

Press both ends of tuning button and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the right or left side of the tuning button.

Preset Scan Tuning

Pressing the preset scan button (CH indicator flashes) causes previously stored frequencies to be tuned in sequentially for eight seconds each. Press again when the desired frequency is tuned in to cancel preset scan tuning.

Preset Tuning

Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

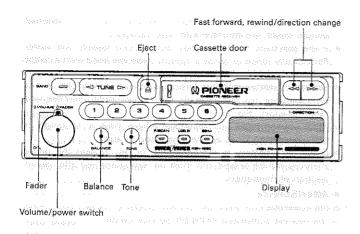
Manual Tuning

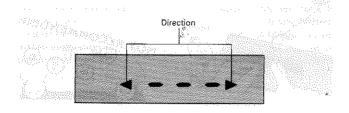
When manual tuning is employed, FM frequencies change in 50 kHz steps while AM frequencies change in 9 kHz steps.

- AM frequencies are tuned in 10 kHz steps after the tuning steps are changed.
- Press both ends of tuning button and the seek tuning indicator will disappear from the display.
- Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.

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Using the Tape Deck





- Before attempting operation...
- Set the fader control to the upright position.
- 1. Turning the power switch to the right causes power to switch ON.
- Loading a cassette tape into the load slot causes playback to begin automatically.
- 3. Adjust the volume and balance.
- 4. Adjust the tone.
- 5. When tape playback reaches the end of the tape, playback will automatically switch from the side being played to the opposite side (ie. Side A to Side B or vice versa) (Auto-reverse). To eject the tape during playback, press the eject button.
- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.
- Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.
- Be sure to eject the tape when the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.

Care and Maintenance

• Fast Forward/Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons can be regarded as fast forward/rewind buttons.

The state of the s

For fast forward, press the high-speed tape transport button that corresponds to the direction that is shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button that is opposite that of the direction shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button.

Direction Change

Push the fast forward and rewind buttons together to switch from one side of the tape to the other (from Side A to Side B or vice versa).

- Do not use tapes longer than C-90-type (90 min.) cassettes.
 Longer tapes can interfere with tape transport.
- If the playback head becomes dirty, sound quality will suffer.
 Periodically (once or twice a month) clean the head with a cotton swab soaked with alcohol. (Fig. 1)
- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport. (Fig. 2)
- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.
- If the car's battery is disconnected for any reason the preset memory will be erased and must be reprogrammed after reconnection of the battery.

After Service

In the event this unit does not function properly, contact your dealer or the nearest authorized PIONEER Service Center.



Fig. 1

General

Power source	4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
iviax, current consumption	
Dimensions (chassis)	. 178(W) $ imes$ 50(H) $ imes$ 147.5(D) mm
(nose)	170(W) $ imes$ 46(H) $ imes$ 12(D) mm
Weight	1.3 kg
	NAME OF A STATE OF A S
Continuous power output is 10 W	per channel min, into 4 ohms
both channels driven 50 to 15,000 H	z with no more than 5% THD
Maximum power output	\sim 25 W \times 2/15 W \times 4 (FIA.1)
Continuous power output	11 W × 2 /1% diet at 1 kHz)
Load impedance	4 O (4 - 8 O allowable)
Loudness contour	
	(volume: -30 dB)
Tape player	(volume: -30 dB)
Tano	
Tape Com	pact cassette tape (C-30 C-90)
Tape speed	
1 got IOI ANGION LEANISIN FILLIG. """"	Approx. 100 sec. for C-60
Wow & flutter	0.13% (WRMS)
Frequency response	40 — 14,000 Hz (±3 dB)
Stereo separation	
Signal-to-noise ratio	52 dB (IEC-A network)
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FM tuner	1845 - Andrewski Steiner (1866)
Frequency range	
Usable sensitivity 11 dBI	f (1.0 μV/75 Ω, mono, S/N; 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio	
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	
Stereo separation	40 dB (at 65 dBf, 1 kHz)
AM tuner	
Frequency range	
	530 — 1710 664-710 644

Usable sensitivity 18 μ V (25 dB) (S/N: 20 dB) Selectivity 50 dB (±9 kHz)

recovery, sometime according to the properties and the properties and the second

Specifications and the design are subject to possible modification without notice due to improvements.

50 dB (±10 kHz)

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